25. The computer program product as recited in claim 16, wherein the execution of the transaction pattern includes retrieval of the transaction pattern by <u>at least one</u> <u>of</u> an automated <u>agent and a</u> [and/or] programmable agent.

Please add the following new claims (32-42), which are also reproduced in Appendix 3:

32. The method as recited in claim 15, wherein the remote application is an electronic commerce application.

33. A method for carrying out a computer-implemented transaction, comprising:
(a) recording information submitted by a user as part of a transaction;
(b) recording user actions taken by a user as part of the transaction;
(c) recording system actions taken by a system in response to the information and the user actions in order to generate results as part of the transaction;
(d) recording the results that are sent to a user as part of the transaction;
(e) generating a transaction pattern based on the recorded information;
(f) storing the transaction pattern in memory; and
(g) executing the transaction pattern to automatically carry out the transaction upon receiving a user request for the transaction.

34. The method as recited in claim 33, wherein the transaction pattern further includes a record of actions taken by the system which enable access of the user to data, and actions enabled by the data to retrieve content.

35. The method as recited in claim 33, wherein the storage of the transaction pattern includes the storage of information returned to a user by a system.

36. The method as recited in claim 33, wherein the storage of the transaction pattern includes the storage of information selected by a user.

37. The method as recited in claim 33, wherein the execution of the transaction pattern includes retrieval of the transaction pattern by at least one of an automated agent and a programmable agent.

38. The method as recited in claim 33, wherein the execution of the transaction pattern involves automatic navigation during the transaction.

39. The method as recited in claim 33, wherein the execution of the transaction pattern includes relaying content to a user.

40. The method as recited in claim 33, wherein the execution of the transaction pattern includes recognizing a state of a remote application.

41. A method for carrying out a computer-implemented electronic commerce (e-commerce) transaction, comprising:

(a) storing in memory a transaction pattern reflecting a transaction, wherein the transaction pattern includes:

    i. creation and actions associated with forms presented in a web-interface with which a user submits information;

    ii. information submitted by a user, in forms presented in an e-commerce flow;

    iii. an internal process whereby the submitted information is sent to servers and databases of an e-commerce site;

    iv. navigation of the user within the e-commerce process; and

    v. results returned by the e-commerce site once the submitted information has been processed; and

(b) executing the transaction pattern to carry out the transaction.

42. A method for carrying out a computer-implemented transaction, comprising:

(a) recording information submitted by a user as part of a transaction;

(b) recording user actions taken by a user as part of the transaction;

(c)   recording system actions taken by a system in response to the information and the user actions in order to generate results as part of the transaction;

(d)   recording the results that are sent to a user as part of the transaction;

(e)   recording actions taken by the system which enable a user to access data;

(f)   recording actions enabled by the data to retrieve content;

(g)   generating a transaction pattern based on the recorded information;

(h)   storing the transaction pattern in memory, including:

    i.   storing records relating to an interface presented to a user;

    ii.   storing records relating to the submission of information by a user;

    iii. storing parameters required to complete the transaction;

    iv.   storing records relating to the navigation of a user during the transaction;

    v.   storing information returned to a user by a system;

    vi.   storing information selected by a user;

(i)   executing the transaction pattern to automatically carry out the transaction upon receiving the user request for the transaction.

    i.   retrieving the transaction pattern using at least one of an automated agent and a programmable agent;

    ii.   recognizing a state of a remote application.

    iii. submitting required parameters during the transaction;

    iv.   performing automatic navigation during the transaction;

    v.   retrieving content; and

    vi.   relaying content to a user.

REMARKS

The claims of the present application have been amended to include subject matter clearly disclosed in the originally filed specification. No new matter has been added.